Monsanto

FROM (NAME—LOCATION—PHONE): S. A. Heininger

DATE: November 16, 1982

SUBJECT: MCI PIR NO. 3808
MAIN SOUTH TRUNK SEWER -
REFERENCE: W. G. KRUMMRICH

TO:

Messrs. A. W. Andrews
L. A. Cohn
J. M. Costello
J. E. Maurer
M. F. Mee
W. R. Robirds
G. Roush, M.D.
L. B. Skatoff

cc. Messrs. E. N. Brasfield
S. R. Hinds
R. G. Potter
J. W. Turbyfill

The attached Project Initiation Request has been accepted by the President and reviewed by the CAC.

S. A. Heininger

S. A. Heininger

SAH/amd

Attachment

11/19/82

MCO 6360437

xc: M. Dmytryszyn
W. C. Engman-1740
W. B. Hicks
J. W. Molloy-1740
R. L. Nelson-1740
T. G. O'Connell
W. B. Papageorge
L. D. Shayer
J. A. Sturm
W. W. Varnado
R. L. Wiese

IN - 10 (REV. 8-77)

Monsanto

PIR No. 3808 PIRDT Date August 12, 1982
Organization Monsanto Chemical Intermediates
Division Manufacturing
Business Group Site
Strategic Planning Unit N/A
Location * W. G. Krummrich
*Based on Facility Deployment Guidelines

PROJECT INITIATION REQUEST

PROJECT TITLE MAIN SOUTH TRUNK SEWER

PROJECT CLASSIFICATION Support Facilities - New Equipment

NEW INVESTMENT EXPECTED $6.5M ± 30% CAPACITY PLANNED N/A

REFERENCE: Approved BDP N/A LRP 1982 - pg. 169

EXPECTED DATES: Project Definition Report 11/82 AR SUBMISSION 10/83

KEY STRATEGIC PURPOSE

This project will provide a new 42" Monsanto owned sewer to carry Krummrich plant effluent currently handled by two Village of Sauget sewers. The existing sewers are badly deteriorated primarily due to the acidity of Krummrich effluent and are subject to collapse/failure which would cause significant manufacturing loss.

BACKGROUND MCO 6360438

The two Sauget sewers convey nearly all Krummrich effluent and the WGK plant waste constitutes an average of 90% of the normal 4900 GPM flow rate for both sewers. The one 24" main is over 50 years-old and the other 30"/36" main is nearly 40 years-old. As mentioned, the sewers are badly deteriorated many of the connection boxes have collapsed to some extent and repairs would not be cost effective for continued acid use.

We are proposing to separate Monsanto's waste into a new 'acid proof' sewer and let the Village of Sauget make simple, non-acid type repairs (estimated at $100k annually) to one of their sewers for municipal use. Currently, pollution monitoring/control at Krummrich is greatly complicated and compromised by the mixing of plant effluents with others' waste. A single effluent stream from Krummrich would reduce Monsanto's regulatory liabilities. Monsanto will bear some portion of the repair costs on the Sauget sewer through municipal tax payments over the next several years.

SUBMITTED BY: E N Brasfield GM — 10/15/82
E. N. Brasfield, G.M., Mfg. Div., MCI — Date

R. G. Potter — 10/15/82
R. G. Potter, Managing Director, MCI — Date

ACCEPTED: — 10/28/82
R. J. Mahoney, President — Date

G-2566 (Rev. 11/80)

ALTERNATIVES

1. Do Nothing:

   This alternative is not feasible as the present sewer mains continue to deteriorate. As sewer boxes fail, ground cave-ins occur and eventually this could result in total blockage.

2. Village of Sauget Repair Existing Sewer Mains

   This alternative is not cost effective since it is very unlikely that the repairs could withstand continued acid use for more than a few years and the cost to Monsanto would be at least as much as the proposed project. Without a new sewer to divert flow, existing sewage would have to be pumped around each repair site at considerable cost.

3. Village of Sauget Install a New Sewer Main

   This alternative is essentially the same as the proposed project except that execution would be handled by Sauget. Monsanto's outlay would be approximately the same, $6.5M, but we would have potentially more to lose by giving up control. This project is highly vulnerable due to deep excavations and unpredictable water/soil conditions which require close management in order to control escalations. Further, Monsanto's expenditure would still be considered capital, not expense. This alternative is not recommended.

SCOPE

This project proposes to install a new 42" 'acid proof' trunk sewer which will collect the outfall of many small sewers within the Krummrich plant. The new sewer will be roughly 1700 feet long and can be tied into the two Sauget sewers for short periods. This permits Sauget to temporarily divert their total flow through the new sewer and minimize repair costs on the old sewers.

Mechanical completion is forecast for first quarter 1985 based on first quarter 1983 approval.

OTHER

This project is listed in the October 1982 Capital Forecast at $6.5 for first quarter 1983 consideration.

This project is consistent with the facilities deployment guidelines for the W. G. Krummrich plant and will potentially qualify for IRB financing.

MCO 6360439